APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Long-Term Strength of Tubes Under Complex Loads, by B. V. Zver'kov. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 3, 1958, pp 51-55

Co-op Tr Sch 593

Sci - Engr

Mar 59

82,413

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Certain Problems Concerning the Theory of Heat Exchange in the Laminar Flow of a Fluid in Pipes, by B. A. Lavrentsov.

RUSSIAN, per, Teploenergetika, No 3, 1958, pp 55-60.
9661807.

ATIC F-TS 9958/V

Sci - Phys
Jun 61

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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About Fluxing of Coals With the High Heat Melting Ashes at Cyclone Method of Fuel Burning, by I. J. Zalkind, et al.UNCL

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 34-41.

Co-op Tr Scheme 554

Sci - Min/Met
Mar 59

82,032

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Equation of State, Thermodynamic Functions and Standard Tables for Water and Superheated Steam to 1000 atm. and 1000°C, by M. P. Vukalovich, et al.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 46-52.

Infosearch Ltd.

Sci - Phys
Sep 59

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Experimental Investigation of the Compressibility of Water and Steam Near the Critical Temperature Range, by V. A. Kirillin, et al.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 53, 54.

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Sci - Phys
Sep 59

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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On Heat Exchange at Turbulent Flow of Liquid in Tubes, by B. S. Petukhov, V. V. Kirillov. UNCL

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 63-69. 9662676

possible *ATIC F-TS-9959/V

Co-op Tr Scheme 613

Sci - Phys
Mar 59

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Accounting for the Effect of Unstable Conditions at the Convective Heat Exchange, by E. A. Sidorov.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 79, 80. 9682616.

ATIC FTS-9959/1

Sci - Physics

Jul 61

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Experimental Relations for the Heat-Transfer Coefficient in Steam-Turbine Condensers, by L. D. Berman.

RUSSIAN, per, Teploenergetika, Vol V, No 4, 1958, pp 82-86.

DSIR LLU M.1368
(loan)

Sci - Phys

Sep 60

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Gasification of Pulverized Coal at High Intensity in a Bed of Lump Fuel Under Pressure, by Kh. I. Kolodtsev, V. I. Babii. UNCL

RUSSIAN, per, Teploenergetika, Vol V, No 5, 1958, pp 25-31.

DSIR LIU (loan) M.406

Sci - Fuels
Aug 59

94, 845

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Thermal Characteristic Curves for Heat Exchangers, by E. Ya. Sokolov. UNCL

RUSSIAN, per, Teploenergetika, No 5, 1958, pp 38-43.

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Lewknor, Oxon.
CSIRO

Sci - Phys
Jan 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Determination of Steam Humidity [illegible]
by A. V. Ratner, V. G. Zelenskiy. UNCL

RUSSIAN, per, Teploenergetika, Vol. V, No 5,
1958, pp 44-46.

DSIR LLU RTS 1062

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94,831

Sci - Engr
Aug 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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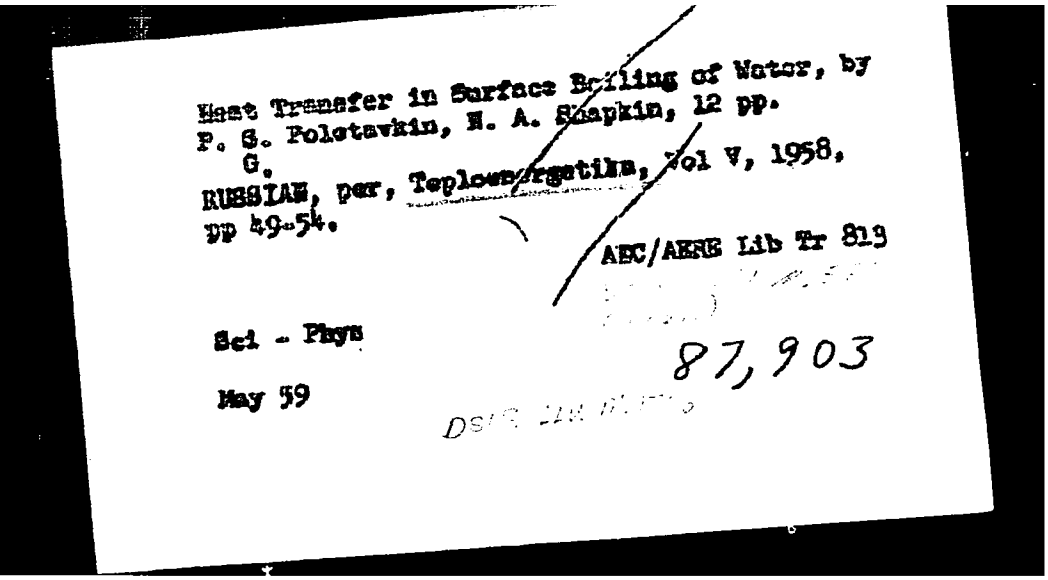

Heat Transfer in Surface Boiling of Water, by P. S. Polotavkin, N. A. Shapkin, 12 pp.
G.
RUSSIAN, per, Teploenergetika, Vol V, 1958, pp 49-54.

AEC/AERE Lib Tr 819

Sci - Phys

May 59

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Calculation of the Limiting Temperature for Regenerative Feedwater Heating, by A. I. Andryushchenko. UECL

RUSSIAN, per, Teploenergetika, No 5, 1958, pp 57-61.

DSIR LIB RTS 1061

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Sci - Phys
Jun 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Long-Term Strength of Cylindrical Bodies Weakened by Apertures, by A. A. Zakharov, Kh. M. Kats. UNCL

RUSSIAN, per, Teploenergetika, No 6, 1958, pp 52-55.

M. Tollemache -53
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Lewknor, Oxon.

84,024

Sci - Phys; Engr
Apr 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Investigation of Separation of Solid Particles in Suspension on to a Film of Liquid from a Stream Moving in a Vortex, by V. E. Nadov, et al.

RUSSIAN, pub, Teploenergetika, No 6, 1958, pp 63-71.

Co-op Trans Neh 629

Sci - Physics
Mar 59

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

The Hydraulic Frictional Resistances to the Flow of a Mixture of Steam and Water in a Straight Horizontal Tube, by S. I. Kosterin, B. I. Shaynin. USCL.

Russian
[redacted], per, Teploenergetika, No 5, 1958, pp 71-76.

NEL M/4374
DSIR LLU RRS 1062
15s. Od. 94, 825

Sci - Phys
Aug 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Kirillin, V. A.
ON INTERNATIONAL COLLABORATION IN THE FIELD OF RESEARCH ON THE THERMODYNAMIC PROPERTIES OF STEAM (O Mezhdunarodnom Sotrudnichestve v Oblasti Issledovanii Termodinamicheskikh Svoistv Vodyanogo Para). May 62 [10]p. RTS 2057. Order from OTS or SLA $1.10 62-25461

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 7, p. 3-6.

DESCRIPTORS: *Conferences, *Steam, *Thermodynamics, Scientific research.

(Physics--Thermodynamics, TT, v. 9, no. 3)

62-25461

I. Kirillin, V. A.
II. RTS-2057
III. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

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Investigation of the Thermal Capacity of Steam c_p Up to 700 atm. and 700°C, by M. P. Vukalovich, et al.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 7-9.

DSIR LLU RTS 1538

Sci - Engr

Oct 60

1301721

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Thermal Capacity and Enthalpy of Steam at Super-critical Pressures, by A. M. Sirota.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 10-13.

DSIR LLU RTS 1539

Sci - Engr

Oct 60

130,723

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Specific Heat c_p of Steam on the Saturation Line, by A. E. Sheindlin, et al.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 13-17.

DSIR LLU RTS 1540

Sci - Chem, Engr

128,859

Oct 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Contribution to the Problem of Thermal (Calorific) Quantities of Steam in the Ideal Gaseous State, by V. S. Siletskiy.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 18-21.

DSIR LLU RTS 1541

Sci - Engr

Oct 60

128,727

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

An Equation of ~~xx~~ State for Steam, by Ya. Z. Kazavchinskiy, O. I. Katkhe.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 26-30.

NLL NTS 2058

Sci - Engr

Aug 62

207,200

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Experimental Investigation of the Thermodynamic Properties of Freon - 142, by L. I. Cherneyeva.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 38-43.

NLL RTS 2033

Sci - Engr

Aug 62

207, 201

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Direct-Flow Boiler With Washing and Separating System, by I. I. Koshelev. UKCL

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 55-63.

DSIR LLU RTS 1054

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95, 890

Sci - Engr
Sep 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

A Steam Jet Method for Measuring Clearances in Steam Turbines, by Ya. M. Rubinshtein, M. A. Trubilov.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 68-74.

DSIR LLU M.929
(loan)

128,758

Sci - Engr

Oct 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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IMPROVING THE WATER-TIGHTNESS OF STEAM TURBINE CONDENSERS FOR INSTALLATIONS WITH SUPER-HIGH AND SUPERCRITICAL STEAM PARAMETERS, BY L. D. BERMAN, S. N. FUKS.

RUSSIAN, PER, TEPLOENERGETIKA, NO 8, 1958, PP 25-31.

NLL M. 3864

SCI - ENGR

NOV 62

217,683

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Temperature Variations in High Pressure Boiler Drums and Their Treatment, by I. A. Meshchaninov, G. P. Mukhin, 8 pp.

RUSSIAN, per, Teploenergetika, Vol V, No 8, 1958, pp 44-49.

SLA 59-22436

Sci
Jan 62
Vol III, No 10

181, 258

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Emissivity of Boiler Furnace Slags, by S. G. Agababov. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1958, pp 56-60.

DSIR LLL RTS 1052

Sci - Engr
Jul 59

90,690

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

An Experimental Study of the Viscosity of Methane, by N. V. Pavlovich, D. L. Timrot.

RUSSIAN, per, Teploenergetika, No 8, 1958, pp 61-65.

NLL RTS 2034

Sci - Engr

Aug 62

20/, 202

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Mass Exchange in Horizontal Tube Condenser With Steam Containing Air, by L. D. Berman, S. N. Fuks.

RUSSIAN, per, Teploenergetika, Vol V, No 8, 1958, pp 66-74.

DSIR LLU M.901
(loan)
Sci - Engr
Oct 60
128,905

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Experimental Investigation of the Critical Thermal Load When Binary Mixtures are Boiled, by V. J. Fastovskiy, R. I. Artym.

RUSSIAN, per, Teploenergetika, Vol V, 1958, pp 74-78.

TIL T 5218
NLL M.3445
181, 304

Sci - Phys

Jan 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

An Investigation of Velocity Thermo-Couple as a Correcting Link in a System for the Automatic Controll of Steam Superheat Temperature, by Yu. I. Sitintskiy. UNCL

RUSSIAN, per, Teploenergetika, No 9, 1958, pp 30-33.

DSIR LIB RTS 1048

90,691

Sci - Electricity
Jul 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Deich, M. E. and Zaryankin, A. E.
AN APPROXIMATE METHOD OF CALCULATING TIP LOSSES (Priblizhennyi Metod Rascheta Kontsevykh Poter'). Dec 61 [9]p. 4 refs. RTS 1973.
Order from OTS or SLA $1.10 62-13744

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 9, p. 57-60.

DESCRIPTORS: *Turbine blades, Tests, Energy, Pressure, Fluid flow, Turbulent flow, Boundary layer, Turbulent boundary layer, Laminar boundary layer, Numerical analysis.

An approximate method of calculating tip losses in turbine cascades is proposed. Calculated and experimental data are compared. (Author)

(Machinery--Engines, TT, v. 7, no. 8)

62-13744

I. Deich, M. E.
II. Zaryankin, A. E.
III. RTS-1973
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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Chemical and Phase Composition of Slag in TP-240 Boiler Operating Under 185 Atm. Pressure, by Yu. V. Zenkevich, N. Ya. Karasik.

RUSSIAN, per, Teploenergetika, Vol V, No 9, 1958, pp 68-70.

NLL Ref: 9022.09 1963 (3093) (Loan)

Sci
Feb 64

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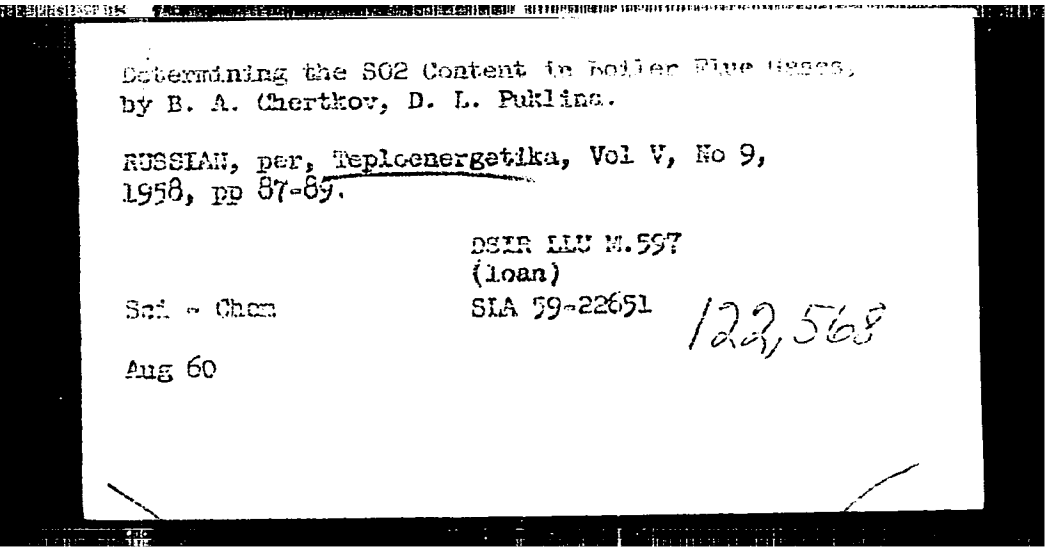

Determining the SO2 Content in Boiler Flue Gases,
by B. A. Chertkov, D. L. Puklina.

RUSSIAN, per, Teploenergetika, Vol V, No 9,
1958, pp 87-89.

DSIR LLU M.597
(loan)

Sci - Chem SIA 59-22651

Aug 60

123,565

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Chernyshev, N. A.
EFFECT OF ROTATION ON THE OPERATION OF VALVES IN CONTROL SYSTEMS (O Vliyanii Vrashcheniya na Rabotu Zolotnikov Sistem Regulirovaniya). [1961] 16 p. (foreign text included) 9 refs. [DSIR LLU] M. 2596
Order from OTS or SLA $1.60 61-23281

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 10, p. 30-34.

DESCRIPTORS: *Rotary valves, *Control systems, *Steam turbines, Performance.

The paper puts forward the principles of the operation of rotating valves, and reviews the effect of rotation on the regulating properties of valves, and the leakage of oil through the clearance between the sleeve and the valve. (Author)

(Engineering--Mechanical, TT, v. 6, no. 3)

61-23281

L Chernyshev, N. A.
IL DSIR LLU M. 2596

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

The Optimum Conditions for Regenerating H-Cationite Fitters With Different Cationites, by F. G. Prokhorov, T. A. Kurakaya.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 35-42.

DSIR LLU RTS 1542

Sci - Engr

Oct 60

128,729

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Removal of Silicates From Water by Magnesite Sorbent Developed by VODGEO Institute, by V. M. Kvyatkovskiy, A. I. Baulina.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 46-51.

DSIR LLU RTS 1544

Sci - Chem, Engr

128,855

Oct 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Influence of the Dwell Time of Water in an Accumulator Tank on the Efficiency of Oxygen Separation, by I. K. Grishuk, et al.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 51-53.

DSIR LLU RTS 1545

Sci - Chem, Engr

128,856

Oct 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Prevention of Oxygen and Carbon Dioxide Corrosion of Power Equipment by Means of Octadecylamine, by P. A. Akol'zin, et al.

RUSSIAN, per, Teploenergetika, Vol V, No 10, 1958, pp 54-55.

NLL M. 1456
OTS 62-29241

Sci - Chem

174,988

Dec 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

An Experimental Study of the Thermal Conductivity of Helium, 7 pp.

RUSSIAN, per, Teploenergetika, Vol V, No 10, 1958, pp 61-65.

AEC NP-tr-477
available from Research Std London at TA-5 8/10/61
141,586

Sci - Chem
9 Mar 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Calculations for Combined Pulverized Fuel Burners With Central and Peripheral Gas Feed, by Yu. V. Ivanov. UNCL

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 9-13.

DSIR LLL RTS 1049

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95, 891

Sci - Math; Engr
Sep 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

The Use of Natural Gas as a Fuel, by K. F. Roddatis.

RUSSIAN, per; Teploenergetika, Vol V, No 11, 1958, pp 3-9.

DSIR LLU M.902
(loan)
SLA 60-13776

Sci - Fuels

Aug 60

122,544

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Approximate Method for Calculating the Burnout of a Pulverxised Coal Flame, by V. V. Pomerantsev.

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 33-41.

NLL Ref: 9022.09 1964 (3431)
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Sci
Sep 64

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Critical Heat Flux in Uniform and Non-Uniform Heating of the Circumference of Steam Generating Tubes, by Z. L. Miropol'skiy, I. L. Mostinskiy. USCL

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 64-69.

DSIR LLU RTS 1051

15s. Od.

94, 826

Sci - Phys
Aug 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Heat Transfer of Banks of Pipes in a Transverse Stream of a Free Flowing Solid (Sand)., by S. V. Donskov.
RUSSIAN, per. Teploenergetika, No 11, 1958, pp 76-80.
NLL RTS 3546

Sci-Physics
Nov 67

345, 343

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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13 524 GF-1 At-1

MARGULOVA T. Kh.

Rational organization of water circulation in single-circuit atomic energy plants with boiling water reactors

Die Wasserwirtschaft in einem Kraftwerk mit Siedewasser-Reaktoren

Teploenergetika, 5, No. 12, 22-26 (1958)
Archiv für Energiewirtschaft, 351-360 (1959) - German

GF-1: German
At-1: Ph, 1960/61, No. 69 - German (See ref. 3033-"TB", 1, 5)
Abs.: NSA, 13, No. 24A, ref. 23089 (1959) - English

Euratom

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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An Investigation of the Operation of Turbine Blades at High Velocities, by M. E. Deich, A. V. Gubarev.

RUSSIAN, per, Teploenergetika, No 12, 1958, pp 56-62.

MLL RTS 2001

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Jul 62

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The Thermal Conductivity of Slags in the Solid and Molten States, by N. B. Vargaftik, O. N. Oleshchuk. UHCL

RUSSIAN, per, Teploenergetika, No 12, 1958, pp 79-85.

DSIR LLU RTS 1063

15s. Od.

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Sci - Phys; Min/Met
Sep 59

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Generalizations of the Experimental Data for the Circulation of Water in Boilers, by G. E. Kolodovskiy, 35 pp.

RUSSIAN, per, Teploenergetika, No 1, 1959, PP 3-29. 9079921

AEC Tr-4659

Sci
Aug 61

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High-Power Boiler Installations of the Podol'skiy Machine-Construction Works, by O. N. Dobrynin, G. Ya. Mazharnup. UNCL

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DSIR LLU RTS 1290

(25s. 0d.) 102,509

Sci - Engr
Dec 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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RUSSIAN, per, Teploenergetika, Vol VI, No 1, 1959, p 49.

SLA 60-13568

Sci

Apr 61

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Aerodynamics of Fluidised Beds, by V. M. Dement'yev.

RUSSIAN, per, Teploenergetika, No 1, 1959,
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DSIR LIU RTS 1524

Sci - Engr

Oct 60 128,728

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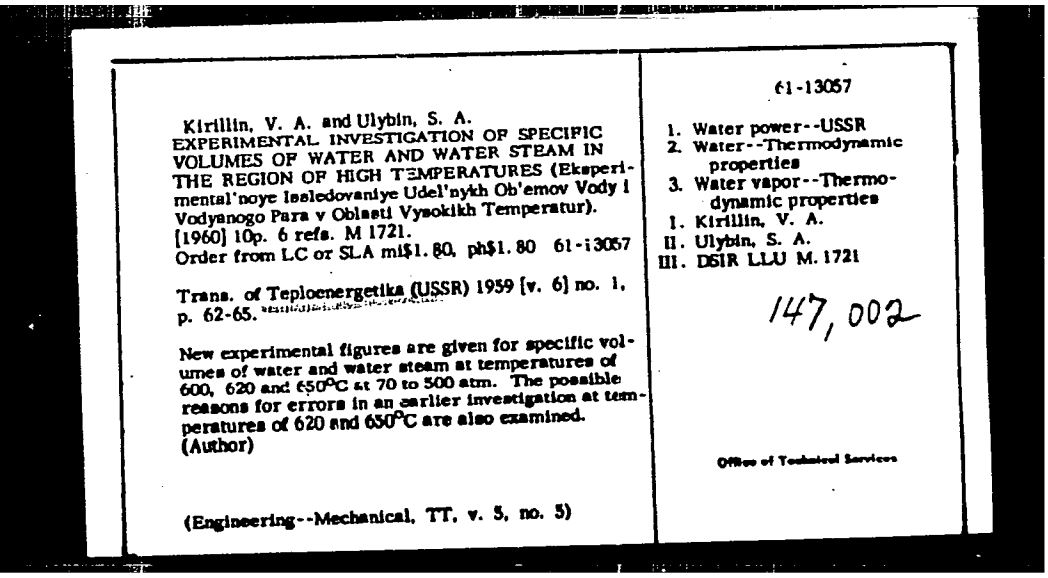

Kirillin, V. A. and Ulybin, S. A.
EXPERIMENTAL INVESTIGATION OF SPECIFIC VOLUMES OF WATER AND WATER STEAM IN THE REGION OF HIGH TEMPERATURES (Eksperimental'noye Issledovaniye Udel'nykh Ob'emov Vody i Vodyanogo Para v Oblasti Vysokikh Temperatur). [1960] 10p. 6 refs. M 1721.
Order from LC or SLA mi$1.80, ph$1.80 61-13057

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 1, p. 62-65.

New experimental figures are given for specific volumes of water and water steam at temperatures of 600, 620 and 650°C at 70 to 500 atm. The possible reasons for errors in an earlier investigation at temperatures of 620 and 650°C are also examined. (Author)

(Engineering--Mechanical, TT, v. 5, no. 5)

61-13057

1. Water power--USSR
2. Water--Thermodynamic properties
3. Water vapor--Thermodynamic properties
I. Kirillin, V. A.
II. Ulybin, S. A.
III. DSIR LLU M. 1721

147,002

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Heat Transfer to Water, Oxygen and Carbon Dioxide in the Approximate Critical Range, by M. E. Shitsman.

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 68-72.

*UKAEA-Windscale-Tr-57

On loan only

Sci - Nucl Sci

Jul 63

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Heat Transfer During the Viscous-Gravitational Flow of a Liquid Through Pipes, by B. S. Petukhov and L. D. Mol'de.
RUSSIAN, per, Teploenergetika, 1959, No 1, Vol 6, pp 72-80.
MLL RTS 2640 (On Loan or Purchase)
OFSTI # 64-23532 On Loan

Aug 65 286,984

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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The Effect of Inlet Conditions on the Critical Heat Flux for the Case of Boiling Water in Tubes, by Z. L. Miropol'skiy, et al.

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 80-83.

DSIR LLU RTS 1525

Sci - Engr

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Oct 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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An Investigation of the Critical Rate of Stripping a Film of Moist Moisture From the Wall of a Steam Pipeline, by M. A. Morozev,

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DSIR LLU-M-1885 or
DSIR LLU RUS-1581

Sci - Engr
May 62
List 69

194, 145

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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(NY-2900/2).

Electrical and Power Equipment
~~Steam Turbines of the Kharkov Turbine Plants~~,
by L. A. Shubenko-Shubin, 21 pp.

RUSSIAN, per, Teploenergetika, No 2, 1959, pp 3-15.

JPRS-1798-N

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Jul 59

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Method of Designing the Flow Section of Steam and Gas Turbines, by A. M. Zavadovsky, Kh. L. Babenko.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 23-28.

DSIR LLU M.1891
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SLA 61-13211/28,895

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Oct 60

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DSIR LIU M.1885
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DSIR LIU RTS 1581 128,894

Sci - Engr

Oct 60

AEC Tr-
Dept of Interior
TC7 E57 No 43

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Behaviour of Hydroxide and Calcium Chloride in the Circuit of a Once-Through Boiler, by Yu. F. Samoilov, O. K. Smirnov.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 53-57.

NLL Ref: 9022.09 1963 (3092) (Loan)

Sci
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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The Formation of Iron Oxide Scale in Multiple-Circulation Boilers, by N. N. Man'kina. USSR.

RUSSIAN, por, Teploenergetika, No 2, 1959, pp 79-83.

DSIR LLU RTS 1343

(12s. 6d.)

Sci - Engr

Mar 60

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Effect of the Length or a Heated Pipe Section on the Magnitude of the Critical Thermal Flux During the Forced Flow of a Steam-Water Mixture, by M. A. Styrikovich, L. Ye. Faktorovich, 9 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 83-88.

ATS-74L35R 119,158

Sci
Jun 60
Vol III, No 5

RJ-3310

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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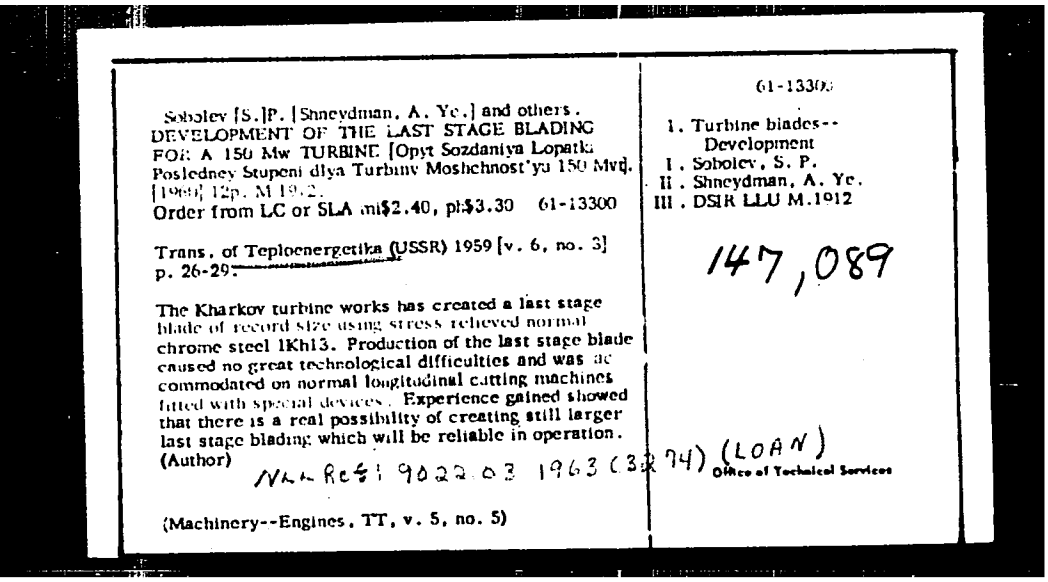

Sobolev [S.]P. [Shneydman, A. Ye.] and others.
DEVELOPMENT OF THE LAST STAGE BLADING FOR A 150 Mw TURBINE [Opyt Sozdaniya Lopatki Posledney Stupeni dlya Turbiny Moshchnost'yu 150 Mvt]. [1960] 12p. M 19.2.
Order from LC or SLA mi$2.40, ph$3.30 61-13300

Trans. of Teploenergetika (USSR) 1959 [v. 6, no. 3] p. 26-29.

The Kharkov turbine works has created a last stage blade of record size using stress relieved normal chrome steel 1Kh13. Production of the last stage blade caused no great technological difficulties and was accommodated on normal longitudinal cutting machines fitted with special devices. Experience gained showed that there is a real possibility of creating still larger last stage blading which will be reliable in operation. (Author)

(Machinery--Engines, TT, v. 5, no. 5)

61-13300

1. Turbine blades--Development
I. Sobolev, S. P.
II. Shneydman, A. Ye.
III. DSIR LLU M.1912

147,089

NAL Rec'd 9022.03 1963 (32 74) (LOAN)
Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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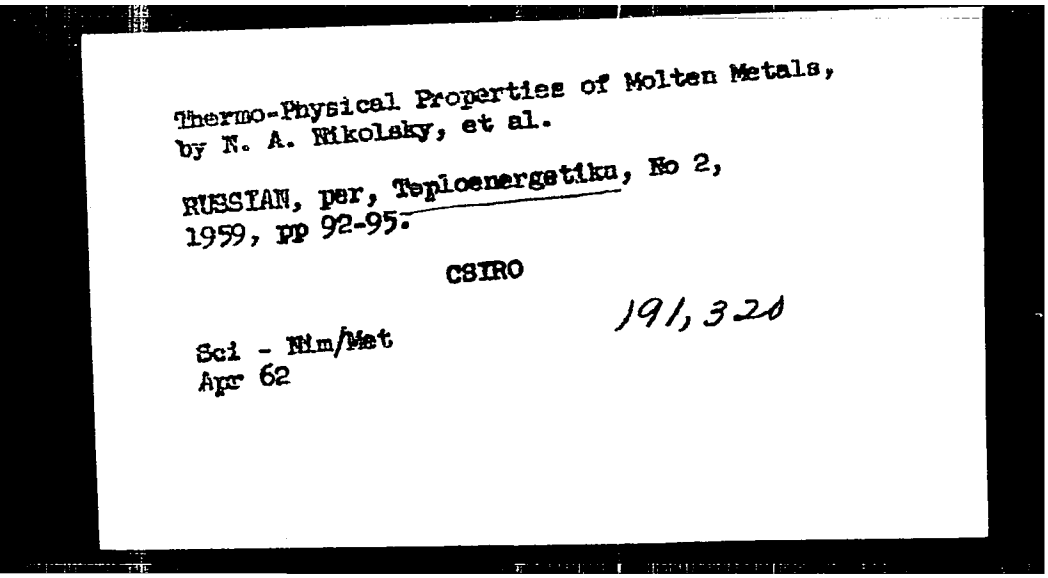

Thermo-Physical Properties of Molten Metals,
by N. A. Nikolsky, et al.

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CSIRO

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Sci - Nim/Met
Apr 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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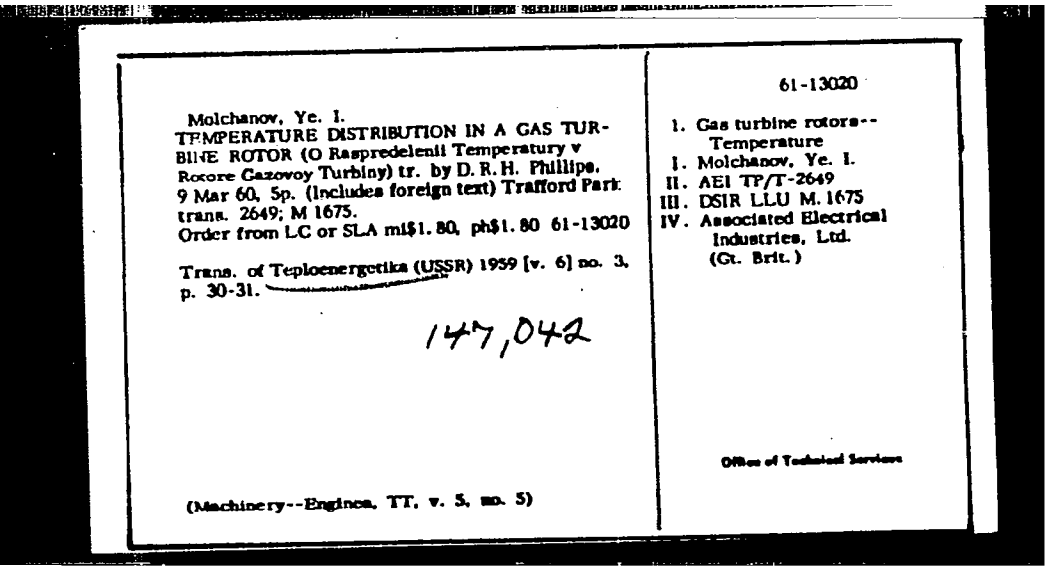

Molchanov, Ye. I.
TEMPERATURE DISTRIBUTION IN A GAS TURBINE ROTOR (O Raspredelenii Temperatury v Rotore Gazovoy Turbiny) tr. by D. R. H. Phillips. 9 Mar 60, 5p. (Includes foreign text) Trafford Park trans. 2649; M 1675.
Order from LC or SLA mi$1.80, ph$1.80 61-13020

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 3, p. 30-31.

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(Machinery--Engines, TT, v. 5, no. 5)

61-13020

1. Gas turbine rotors--Temperature
I. Molchanov, Ye. I.
II. AEI TP/T-2649
III. DSIR LLU M.1675
IV. Associated Electrical Industries, Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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A New Highly Efficient Compressor Stage With a 50% deg. of Reaction, by G. A. Sergeyev.

RUSSIAN, per, Teploenergetika, No 3, 1959, pp 32-35.

TIL, T.5223

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Test of a Vertical Cyclone-Type Combustion Chamber With Provision for Liquid Slag Removal and Air Cooling, by L. A. Bogdanov. UNCL.

RUSSIAN, per, Teploenergetika, No 3, 1959, pp 40-44.

DSIR LLU RTS 1118

12s. 6d. anywhere

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Sci - Engr
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Some Characteristics of Movable Slot Burners for Pulverized Coal, by A. L. Bychkovskiy. UHCI.

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DSIR LLU KTS 1119

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Effect of Pressure Pulsations in a Gas
Flow on Convective Heat Exchange,
by S. I. Kosterin, I. A. Kozhinov, et al,
13 pp.
RUSSIAN, per, Teploenergetika, No 3,
1959, pp 66-72. 9697185
FTD-TT-64-1065

Sci-Engr
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Development of TETS in Large Power Systems Having Condensing Power Plants of High and Super-High Steam Parameters, by S. F. Kop'yev, 6 pp.

RUSSIAN, per, Teploenergetika, No 4, 1959, Moscow, pp 3-10.

JPRS-L-1805-D

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The Problem of Operating More Economically the Existing Industrial Power Stations, by A. F. Afanas'yev, Yu. L. Kertselli, 5 pp.

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JPRS-L-1805-D

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The EPK Wetness Meter, by I. I. Koshelev and V. O. Kovi.
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1959, No 4, pp 49-55.
HLL RTS 2364 (On Loanr or Purchase)
CFSTI # 64-19927

Aug 65 286,983

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Investigation of the Local Boiling of Subcooled Water During Its Flow at High Velocities Through Tubes, by P. I. Pavarnin, S. T. Semenov.

RUSSIAN, per, Teploenergetika, No 4, 1959, pp 72-79.

DSIR LLU RTS 1526

Sci - Engr

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Trans, Comm, & Elec Power in the USSR, (17)

USSR

Econ

Jun 59

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

R-2591 (NY-3201).

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RUSSIAN, per, Teplosnergetika, No 5, 1959, pp 8-16.

JPRS-2226

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USSR
Econ - Electric Power
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Aerodynamic Resistance of Compact Checkered Nests, by V. I. Tolubinsky and V. M. Legki,
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No 5, pp 15-17.
NLL RTS 2404 (On Loan or Purchase)

Aug 65 286,985

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

12 291 GE-1

ARSEN'EV Yu. D., AVERIN E. K.

Approximate determination of the optimum cycle in atomic power plants featuring two closed cycles

Angenäherte Bestimmung des optimalen Zyklus von Atomkraftwerken mit zwei Kreisläufen

Teploenergetika, No. 5, 29-33 (1959) - German

Euratom

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

The Problem of the Determination of the Resistance of a Burning Fuel Bed, by G. B. Froishteter.
RUSSIAN
[illegible], per, Teploenergetika, No 5, 1959, pp 50-55.

Dept of Interior
TR No 1706

Sci

NLL 11 3900

Jan 63

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Selection of the Overlap in Turbine Stages,
by A. M. Zavadovskii.
RUSSIAN, per. Teploenergetika, Vol 6, No 6,
1959, pp 17-21.
NLL 9022.03 (3922)

Sci-Mech Engr
Jul 68

361.624

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Heat Exchange at Bubble Boiling of Liquid, by D. A. Labountzon.

GERMAN, per, Teploenergetika, 1959, pp 19-26.

*AEC-UKAEA/Risley

Sci -
Apr 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Dumov, V. I.
DESIGNING CENTRIFUGAL PUMPS WITH BOOST IMPELLERS TO IMPROVE CAVITATION PERFORMANCE (Raschet Tsentrobezhnykh Stupeney Nasosov s Predvklyuchennymi Osevymi Kolesami, Obladayushchimi Vysokimi Antikavitatsionnymi Svoystvami). [1960] 10p. 8 refs. (5 figs. omitted) M1757.
Order from LC or SLA mi$1.80, ph$1.80 61-13089

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 6, p. 35-39.

A method is put forward for designing centrifugal pumps fitted with additional axial impellers with values of C_{crit} between 3000 and 4000; the method is based on the use of test data and the similarity of the determining parameters. A nomogram and recommendations are given for choosing the basic constructional relationships and dimensions of such stages. (Author)

(Machinery--Machine Parts, TT, v. 5, no. 5)

61-13089

1. Centrifugal pumps--Design
2. Centrifugal pumps--Hydrodynamic characteristics
3. Cavitation--Countermeasures
1. Dumov, V. I.
II. DSIR LLU M. 1757

146,940

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

Heat Transfer and Resistance to Flow in Tubes for Heating Air to High Temperatures, by A. V. Arseyev.

RUSSIAN, per, Teploenergetika, No 6, 1959, pp 67-72.

Sci - Phys

Oct 59

[redacted]
available from
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Automatic Control of Once-Through Boilers,
by N. I. Davydov, E. P. Fel'dman.
RUSSIAN, per, Teploenergetika, Vol VI, No 7, 1959,
pp 5-12.
AEC-Risley Tr 772 on loan

Sci-
Mar 65

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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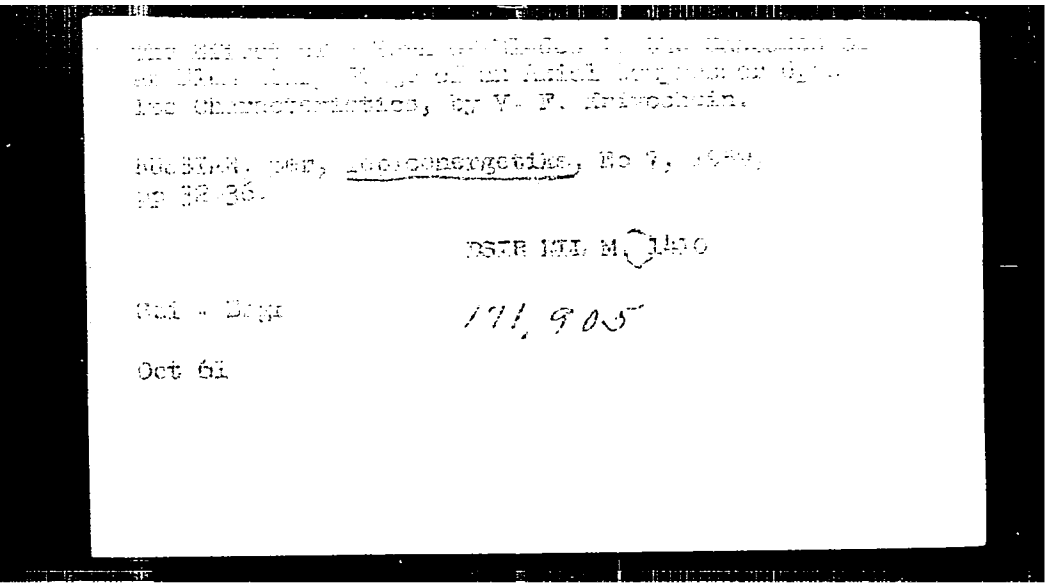

[illegible] Oct 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Operating Conditions of a Radiation Superheater Placed Along the Whole Height of the Furnace, by I. E. Semenovker.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 41-45.

DSIR LLU RTS 1492

Sci - Engr

Oct 60

128,723

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Development of Water Treatment Plant With Cation and Chemical Demineralising, Combined With the Use of Magnesia for Silica Removal, by I. M. Sokolov.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 59-65.

DSIR LLU RTS 1516

Sci - Chem

125,555

Sep 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Continuous Quality Control of Boiler Feed Water and Condensate, by F. K. Evzerova.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 65-69.

DSIR LLU RTS 1517

Sci - Engr

Aug 60

122,527

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6

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Noskiyevich, Ya.
CZECHOSLOVAKIAN RESEARCH ON ELECTRICAL PHENOMENA TAKING PLACE DURING CAVITATION, AND ON ELECTRICAL METHODS OF COMBATTING CAVITATION EROSION (Issledovaniya v Chekhoslovakii Elektricheskikh Yavlenii pri Kavitatsii i Elektricheskikh Sredstv Zaschity ot Kavitatsionnoy Erozii). [1960] [9]p. (8 figs. omitted) 13 refs. M1327. Order from LC or SLA mi$1.80, ph$1.80 60-23038

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 7, p. 84-86.

Numerous investigations on cavitation erosion have shown that the electrical phenomena and their action on the metal should be taken into account in considering the nature of cavitation erosion. The electric currents set up during cavitation are due to heating of the metal. Cathodic protection can be an effective means of combatting cavitation erosion. (Author)

(Engineering--Electrical, TT, v. 5, no. 3)

60-23038

1. Cavitation--Electrical effects
2. Turbines--Cavitation
I. Noskiyevich, Ya.
II. DSIR LLU M.1327

Office of Technical Services

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The VTI-3 Laboratory Monochromatic Photometer, by V. A. Korovin, A. I. Savvatimskiy. UKCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 9-11.

DSIR LLU RTS 1473

(5e. 08.)

Sci - Engr
Apr 60

113,034

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300880003-6